

Practitioner's Docket No. U 013769-5

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00140

PATENT TRADEMARK OFFICE

CHAPTER II

**TRANSMITTAL LETTER
TO THE UNITED STATES ELECTED OFFICE (EO/US)**

(ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

PCT/ES00/00195	1 JUNE 2000	10 JUNE 1999
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED

INTEGRAL VEHICLE BRAKE INDICATOR

TITLE OF INVENTION

1. Fernando DE LA FUENTE ESCANDON

APPLICANT(S)

Box PCT
Assistant Commissioner for Patents
Washington D.C. 20231
ATTENTION: EO/US

NOTE: The completion of those filing requirements that can be made at a time later than 30 months from the priority date results from the Commissioner exercising his judgment under the authority granted under 35 USC 371(d). The filing receipt will show the actual date of receipt of the last item completing the entry into the national phase. See 37 C.F.R.

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is mandatory.)

(Express Mail certification is optional.)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date DECEMBER 10, 2001, in an envelope as "Express Mail Post Office to Addressee," Mailing Label Number EV011019590US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

CONNIE YANNOTTI

(type or print name of person mailing paper)

Connie Yannotti
Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

***WARNING:** Each paper or fee filed by "Express Mail" **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).
"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

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§1.491 which states: "An international application enters the national state when the applicant has filed the documents and fees required by 35 USC 371(c) within the periods set forth in § 1.494 and § 1.495."

WARNING: *Where the items are those which can be submitted to complete the entry of the international application into the national phase are subsequent to 30 months from the priority date the application is still considered to be in the international state and if mailing procedures are utilized to obtain a date the express mail procedure of 37 C.F.R. §1.10 must be used (since international application papers are not covered by an ordinary certificate of mailing - See 37 C.F.R. §1.8.*

NOTE: *Documents and fees must be clearly identified as a submission to enter the national state under 35 USC 371 otherwise the submission will be considered as being made under 35 USC 111. 37 C.F.R. § 1.494(f).*

1. Applicant herewith submits to the United States Elected Office (EO/US) the following items under 35 U.S.C. 371:

- a. ☒ This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
- b. ☒ The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees (37 C.F.R. § 1.492) as indicated below:

20/009253-032702

2.Fees

CLAIMS FEE	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
[]*	TOTAL CLAIMS	9- 20 =		x \$ 18.00 =	\$
	INDEPENDENT CLAIMS	1- 3 =		x \$ 84.00 =	
	MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$280.00				
BASIC FEE**	<input type="checkbox"/> U.S. PTO WAS INTERNATIONAL PRELIMINARY EXAMINATION AUTHORITY Where an International preliminary examination fee as set forth in § 1.482 has been paid on the international application to the U.S. PTO: <input type="checkbox"/> and the international preliminary examination report states that the criteria of novelty, inventive step (non-obviousness) and industrial activity, as defined in PCT Article 33(2) to (4) have been satisfied for all the claims presented in the application entering the national stage (37 CFR 1.492(a)(4)) \$100.00 <input type="checkbox"/> and the above requirements are not met (37 CFR 1.492(a)(1)) \$710.00 <input checked="" type="checkbox"/> U.S. PTO WAS NOT INTERNATIONAL PRELIMINARY EXAMINATION AUTHORITY Where no international preliminary examination fee as set forth in § 1.482 has been paid to the U.S. PTO, and payment of an international search fee as set forth in § 1.445(a)(2) to the U.S. PTO: <input type="checkbox"/> has been paid (37 CFR 1.492(a)(2)) \$740.00 <input checked="" type="checkbox"/> has not been paid (37 CFR 1.492(a)(3)) \$1,040.00 <input type="checkbox"/> where a search report on the international application has been prepared by the European Patent Office or the Japanese Patent Office (37 CFR 1.492(a)(5)) \$890.00				
	Total of above Calculations				=1040.00
SMALL ENTITY	Reduction by ½ for filing by small entity, if applicable. Statement may also be filed. (note 37 CFR 1.9, 1.27, 1.28)				-
	Subtotal				520.00
	Total National Fee				\$520.00
	Fee for recording the enclosed assignment document \$40.00 (37 CFR 1.21(h)). (See Item 13 below). See attached "ASSIGNMENT COVER SHEET".				
TOTAL	Total Fees enclosed				\$520.00

*See attached Preliminary Amendment Reducing the Number of Claims.

- i. ☒ A check in the amount of \$520.00 to cover the above fees is enclosed.
 ii. ☐ Please charge Account No. _____ in the amount of \$ _____.
 A duplicate copy of this sheet is enclosed.

****WARNING:** "To avoid abandonment of the application the applicant shall furnish to the United States Patent and Trademark Office not later than the expiration of 30 months from the priority date: * * * (2) the basic national fee (see § 1.492(a)). The 30-month time limit may not be extended." 37 C.F.R. § 1.495(b).

WARNING: If the translation of the international application and/or the oath or declaration have not been submitted by the applicant within thirty (30) months from the priority date, such requirements may be met within a time period set by the Office. 37 C.F.R. § 1.495(b)(2). The payment of the surcharge set forth in § 1.492(e) is required as a condition for accepting the oath or declaration later than thirty (30) months after the priority date. The payment of the processing fee set forth in § 1.492(f) is required for acceptance of an English translation later than thirty (30) months after the priority date. Failure to comply with these requirements will result in abandonment of the application. The provisions of § 1.136 apply to the period which is set. Notice of Jan. 3, 1993, 1147 O.G. 29 to 40.

3. ☒ A copy of the International application as filed (35 U.S.C. 371(c)(2)):

NOTE: Section 1.495 (b) was amended to require that the basic national fee and a copy of the international application must be filed with the Office by 30 months from the priority date to avoid abandonment "The International Bureau normally provides the copy of the international application to the Office in accordance with PCT Article 20. At the same time, the International Bureau notifies applicant of the communication to the Office. In accordance with PCT Rule 47.1, that notice shall be accepted by all designated offices as conclusive evidence that the communication has duly taken place. Thus, if the applicant desires to enter the national stage, the applicant normally need only check to be sure the notice from the International Bureau has been received and then pay the basic national fee by 30 months from the priority date." Notice of Jan. 7, 1993, 1147 O.G. 29 to 40, at 35-36. See item 14c below.

- a. ☐ is transmitted herewith.
 b. ☐ is not required, as the application was filed with the United States Receiving Office.
 c. ☒ has been transmitted
 i. ☒ by the International Bureau.
 Date of mailing of the application (from form PCT/IB/308): 21 DECEMBER 2000.
 ii. ☐ by applicant on _____
 Date

4. ☒ A translation of the International application into the English language (35 U.S.C. 371(c)(2)):
 a. ☒ is transmitted herewith.
 b. ☐ is not required as the application was filed in English.
 c. ☐ was previously transmitted by applicant on _____
 Date
 d. ☐ will follow.

JUL 13 1994 PCT/PTO 10 DEC 2001

5. ☒ Amendments to the claims of the International application under PCT Article 19 (35 U.S.C. 371(c)(3)):

NOTE: The Notice of January 7, 1993 points out that 37 C.F.R. § 1.495(a) was amended to clarify the existing and continuing practice that PCT Article 19 amendments must be submitted by 30 months from the priority date and this deadline may not be extended. The Notice further advises that: "The failure to do so will not result in loss of the subject matter of the PCT Article 19 amendments. Applicant may submit that subject matter in a preliminary amendment filed under section 1.121. In many cases, filing an amendment under section 1.121 is preferable since grammatical or idiomatic errors may be corrected." 1147 O.G. 29-40, at 36.

- a. ☐ are transmitted herewith.
- b. ☐ have been transmitted
- i. ☐ by the International Bureau.
Date of mailing of the amendment (from form PCT/IB/308): _____.
- ii. ☐ by applicant on _____.
Date
- c. ☒ have not been transmitted as
- i. ☒ applicant chose not to make amendments under PCT Article 19.
Date of mailing of Search Report (from form PCT/ISA/210): 28 AUGUST 2000.
- ii. ☐ the time limit for the submission of amendments has not yet expired.
The amendments or a statement that amendments have not been made will be transmitted before the expiration of the time limit under PCT Rule 46.1.
6. ☐ A translation of the amendments to the claims under PCT Article 19 (38 U.S.C. 371(c)(3)):
- a. ☐ is transmitted herewith.
- b. ☐ is not required as the amendments were made in the English language.
- c. ☒ has not been transmitted for reasons indicated at point 5(c) above.
7. ☒ A copy of the international examination report (PCT/IPEA/409)
- ☒ is transmitted herewith.
- ☐ is not required as the application was filed with the United States Receiving Office.
8. ☐ Annex(es) to the international preliminary examination report
- a. ☐ is/are transmitted herewith.
- b. ☐ is/are not required as the application was filed with the United States Receiving Office.
9. ☐ A translation of the annexes to the international preliminary examination report
- a. ☐ is transmitted herewith.
- b. ☐ is not required as the annexes are in the English language.

10. ☒ An oath or declaration of the inventor (35 U.S.C. 371(c)(4)) complying with 35 U.S.C. 115
- a. ☐ was previously submitted by applicant on _____.
Date
- b. ☐ is submitted herewith, and such oath or declaration
- i. ☐ is attached to the application.
- ii. ☐ identifies the application and any amendments under PCT Article 19 that were transmitted as stated in points 3(b) or 3(c) and 5(b); and states that they were reviewed by the inventor as required by 37 C.F.R. 1.70.
- c. ☒ will follow.

Other document(s) or information included:

11. ☒ An International Search Report (PCT/ISA/210) or Declaration under PCT Article 17(2)(a):
- a. ☒ is transmitted herewith.
- b. ☐ has been transmitted by the International Bureau.
Date of mailing (from form PCT/IB/308): _____.
- c. ☐ is not required, as the application was searched by the United States International Searching Authority.
- d. ☐ will be transmitted promptly upon request.
- e. ☐ has been submitted by applicant on _____.
Date
12. ☒ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98:
- a. ☐ is transmitted herewith.
Also transmitted herewith is/are:
☐ Form PTO-1449 (PTO/SB/08A and 08B).
☐ Copies of citations listed.
- b. ☒ will be transmitted within THREE MONTHS of the date of submission of requirements under 35 U.S.C. 371(c).
- c. ☐ was previously submitted by applicant on _____.
Date
13. ☐ An assignment document is transmitted herewith for recording.

A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.

14. ☒ Additional documents:
- a. ☒ Copy of request (PCT/RO/101)
- b. ☒ International Publication No. WO 00/76817
- i. ☒ Specification, claims and drawing
- ii. ☐ Front page only
- c. ☒ Preliminary amendment (37 C.F.R. § 1.121)
- d. ☒ Other
- PCT FORM PCT/IPEA/401
- _____
- _____
15. ☒ The above checked items are being transmitted
- a. ☒ before 30 months from any claimed priority date.
- b. ☐ after 30 months.
16. ☐ Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on _____, namely:

AUTHORIZATION TO CHARGE ADDITIONAL FEES

WARNING: *Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges if extra claims are authorized.*

NOTE: "A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).

NOTE: "Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

☒ The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the entire pendency of this application to Account No. 12-0425_____.

[X] 37 C.F.R. 1.492(a)(1), (2), (3), and (4) (filing fees)

WARNING: *Because failure to pay the national fee within 30 months without extension (37 C.F.R. § 1.495(b)(2)) results in abandonment of the application, it would be best to always check the above box.*

[] 37 C.F.R. 1.492(b), (c) and (d) (presentation of extra claims)

NOTE: Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must

3043 Received 10 DEC 2001

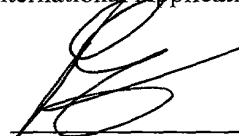
only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 C.F.R. § 1.492(d)), it might be best not to authorize the PTO to charge additional claim fees, except possible when dealing with amendments after final action.

- ☒ 37 C.F.R. 1.17 (application processing fees)
☒ 37 C.F.R. 1.17(a)(1)-(5)(extension fees pursuant to § 1.136(a).
☒ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: 37 C.F.R. 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying . . . issue fee." From the wording of 37 C.F.R. § 1.28(b): (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

- ☐ 37 C.F.R. § 1.492(e) and (f) (surcharge fees for filing the declaration and/or filing an English translation of an International Application later than 30 months after the priority date).



SIGNATURE OF PRACTITIONER

William R. Evans

(type or print name of practitioner)

Reg. No.: 25,858

Tel. No.: (212) 708-1930

P.O. Address

Customer No.: 00140

c/o Ladas & Parry
 26 West 61st Street
 New York, N.Y. 10023

202260 "E526000"

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

☐ In re application of:

Application No.:

Filed:

For:

Group No.:

Examiner:

☐ *Patent No.:

Issue Date:

*NOTE: Insert name(s) of inventor(s) and title also for patent Where statement is with respect to a maintenance fee payment, also insert application number and filing date, and add Box M. Fee to address.

STATEMENT CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(c-f) and 1.27(b-d))

With respect to the invention described in

☐ the specification filed herewith.☐ application no. _____, filed _____.☐ patent no. _____ issued _____.

I. IDENTIFICATION AND RIGHTS AS A SMALL ENTITY

I hereby state that I am

(complete either (a), (b), (c) or (d) below)

(a) Independent Inventor

☐ a below named independent inventor, and that I qualify as an independent inventor, as defined in 37 CFR 1.9(c), for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office.

(b) Noninventor Supporting a Claim by Another

☐ making this statement to support a claim by

for a small entity status for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code. I hereby state that I would qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code, if I had made the above identified invention.

(c) Small Business Concern

☒ the owner of the small business concern identified below:☐ an official of the small business concern empowered to act on behalf of the concern identified below:check
one →

Name of Concern FUESCA, S.L.
Address of Concern C/ Nicaragua, 4 -28016 Madrid- Spain

_____ and
that the above identified small business concern qualifies as a small business concern, as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

(d) Non-Profit Organization

☐ an official empowered to act on behalf of the nonprofit organization identified below:

Name of Organization _____
Address of Organization _____

TYPE OF ORGANIZATION

- ☐ University or Other Institution of Higher Education
☐ Tax Exempt Under Internal Revenue Service Code (26 USC 501(a) and 501(c) (3))

☐ Nonprofit Scientific or Educational Under Statute of State of the United States of America
(Name of State _____)
(Citation of Statute _____)

☐ Would Qualify as Tax Exempt Under Internal Revenue Service Code (26 USC 501(a) and 501(c) (3)), if Located in the United States of America

☐ Would Qualify as Nonprofit Scientific or Educational Under Statute of State of the United States of America, if Located in the United States of America
(Name of State _____)
(Citation of Statute _____)

and that the nonprofit organization identified above qualifies as a nonprofit organization, as defined in 37 CFR 1.9(e), for purposes of paying reduced fees under Sections 41(a) and (b) of Title 35, United States Code.

II. OWNERSHIP OF INVENTION BY DECLARANT

I hereby state that rights under contract or law remain with and/or have been conveyed to the above identified

☐ person ☐ concern ☐ organization
(item (a) or (b) above) (item (c) above) (item (d) above)

EXCEPT, that if the rights held are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held (1) by any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, (2) any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or (3) a nonprofit organization under 37 CFR 1.9(e).

- ☐ no such person, concern, or organization
☐ person, concerns or organizations listed below*

*NOTE: Separate statements are required from each named person, concern or organization having rights to the invention as to their status as small entities. (37 CFR 1.27)

Full Name _____
Address _____
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

Full Name _____
Address _____
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

III. ACKNOWLEDGEMENT OF DUTY TO NOTIFY PTO OF STATUS CHANGE

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

IV. DECLARATION

(check the following item, if desired)

NOTE: The following verification statement need not be made in accordance with the rules published on October 10, 1997, 62 Fed. Reg. 52131, effective December 1, 1997.

NOTE: "The presentation to the Office (whether by signing, filing, submitting, or later advocating) of any paper by a party, whether a practitioner or non-practitioner, constitutes a certification under § 10.18(b) of this chapter. Violations of § 10.18(b)(2) of this chapter by a party, whether a practitioner or non-practitioner, may result in the imposition of sanctions under § 10.18(c) of this chapter. Any practitioner violating § 10.18(b) may also be subject to disciplinary action. See §§ 10.18(d) and 10.23(c)(15)." 37 CFR 1.4(d)(2).

- ☐ I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

V. SIGNATURES

(complete only (e) or (f) below)

(e)

NOTE: All inventors must sign the statement.

Name of Inventor

Signature of Inventor

Date: _____

Name of Inventor

Signature of Inventor

Date: _____

Name of Inventor

Signature of Inventor

Date: _____

(add lines for any additional inventors who must sign)

or

(f)

NOTE: The title of the person signing on behalf of a concern or nonprofit organization should be specified.

Name of Person Signing Fernando de la Fuente

Title of Person PROXY

(if signing on behalf of a concern or non-profit organization)

Address of Person Signing Nicaragua, 4, 28016 Madrid

Spain

SIGNATURE _____

DATE 25 March 2002

Practitioner's Docket No. U 013769-5**CHAPTER II****IN THE UNITED STATES ELECTED OFFICE (EO/US)**

PCT/ES00/00195	1 JUNE 2000	10 JUNE 1999
INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED
INTEGRAL VEHICLE BRAKE INDICATOR		
TITLE OF INVENTION		
1. Fernando DE LA FUENTE ESCANDON		
APPLICANT(S)		

Box PCT**Assistant Commissioner for Patents****Washington, D.C. 20231****ATTENTION: EO/US****PRELIMINARY AMENDMENT**

Please amend the above identified application as follows:

IN THE CLAIMS :

Please amend claims 3, 4, 5, 6, 8, and 9 as follows:

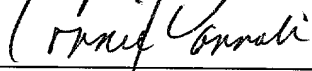
3. (Amended) Vehicle braking indicator according to claim 1, characterized in that the number of lights in the two segments which light up and the rate at which they light up depends on the initial rate of braking, which determines the braking set

CERTIFICATE UNDER 37 1.10

I hereby certify that this paper is being deposited with the United States Postal Service on this date DECEMBER 10, 2001 in an envelope as "EXPRESS MAIL POST OFFICE TO ADDRESSEE" Mailing Label Number EV011019590US addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231

CONNIE YANNOTTI

(Type or print name of person mailing paper)



(Signature of person mailing paper)

NOTE: Each paper or fee referred to as enclosed herein has the number of the "EXPRESS MAIL" mailing label place thereon prior to mailing 37 CFR 1.16(b).

which lights up and the number and the rate at which the vehicle's speed is lost during braking as shown by this set.

4. (Amended) Vehicle braking indicator according to claim 1, characterized in that a microprocessor with a braking indication program processes the vehicle speed signal when the braking system is activated in such a way that the instantaneous speed read is allocated to a number of lights in each segment and accordingly the lights in the two segments light up progressively as the speed of the vehicle changes while braking.

5. (Amended) Vehicle braking indicator according to claim 1, characterized in that the microprocessor is also triggered by the signal from a derivative circuit from the motor revolutions signal.

6. (Amended) Vehicle braking indicator according to claim 1, characterized in that the brightness of the lights which light up in each segment is controlled by an environmental light-sensor in a directly proportional manner.

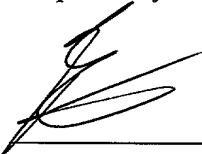
8. (Amended) Vehicle braking indicator according to claim 1, characterized in that the signal reached during the entire braking time is switched off with a specific delay when force ceases to be applied to the brake pedal.

9. (Amended) Vehicle braking indicator according to claim 1, characterized in that the segment which lights up in a variable way may incorporate a zone which always lights up independently of the braking parameters.

Remarks

The above amendatory action is taken solely for the purpose of avoiding claim fees that would otherwise accrue due to the presence of multiple dependent claims.

Respectfully submitted,



WILLIAM R. EVANS
LADAS & PARRY
26 WEST 61ST STREET
NEW YORK, NEW YORK 10023
REG.NO.25,858 (212)708-1930

MARKED UP COPY

3. (Amended) Vehicle braking indicator according to [claims 1 and 2] claim 1, characterized in that the number of lights in the two segments which light up and the rate at which they light up depends on the initial rate of braking, which determines the braking set which lights up and the number and the rate at which the vehicle's speed is lost during braking as shown by this set.

4. (Amended) Vehicle braking indicator according to [claims 1 to 3] claim 1, characterized in that a microprocessor with a braking indication program processes the vehicle speed signal when the braking system is activated in such a way that the instantaneous speed read is allocated to a number of lights in each segment and accordingly the lights in the two segments light up progressively as the speed of the vehicle changes while braking.

5. (Amended) Vehicle braking indicator according to [claims 1 to 4] claim 1, characterized in that the microprocessor is also triggered by the signal from a derivative circuit from the motor revolutions signal.

6. (Amended) Vehicle braking indicator according to [claims 1 to 5] claim 1, characterized in that the brightness of the lights which light up in each segment is controlled by an environmental light sensor in a directly proportional manner.

8. (Amended) Vehicle braking indicator according to [claims 1 to 7] claim 1, characterized in that the signal reached during the entire braking time is switched off with a specific delay when force ceases to be applied to the brake pedal.

9. (Amended) Vehicle braking indicator according to [claims 1 to 8] claim 1, characterized in that the segment which lights up in a variable way may incorporate a zone which always lights up independently of the braking parameters.

INTEGRAL BRAKING INDICATOR FOR A VEHICLE

10009253 03200001

This invention relates to a system for indicating braking by a vehicle, comprising an electronic system for processing actual speed and engine revolutions signals and a segment of lights which as a result of proportionality (controlled by the electronic system) between the vehicle's actual loss of speed and the number of lights and the speed with which they light up (convergently or divergently) in two segments of lights (making up the whole segment) located in the rear part of the vehicle provides other drivers with rapid information on the actual loss of speed as a result of action on the braking system or rapid slowing of the engine, the type of braking being performed (sudden or progressive) and whether at the end the vehicle is moving or stationary.

DESCRIPTION OF THE PRIOR ART

Braking systems have developed greatly since the time when the motorcar was invented to offer greater effectiveness and safety. However, comparatively speaking, braking indicators have not developed in parallel.

From the mechanical point of view the task of a vehicle's braking system is to control or slow down its forward movement and the brake lights indicate to other drivers that the system has been operated. However in some vehicle mechanical or drivers' manuals the following concept is expressed in various ways: "the best brake for a vehicle is its engine", which applies when descending long gradients as well as in other situations (entering or leaving bends, assisting braking, loss of braking system, etc.), and as far as other drivers are concerned this type of braking (which can give rise to a sudden loss of speed) can only be assessed subjectively by the relative change in the positions of the vehicles.

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Existing vehicle braking indicators on the other hand are limited to giving other drivers notice of the fact that the braking system has been activated, but they do not indicate with what intensity this has been done, and therefore provide no information about the effective drop in speed produced, or the time in which this occurs (fierce or gentle braking), or whether at the end the vehicle is moving or stationary.

With both types of braking and possible combinations of the two the problem is that the information which is received about the vehicle's actual loss of speed and whether at the end it is in motion is insufficient, subjective and in many cases late.

Under certain visibility conditions (fog) brake lights have to be increased in brightness in order to be at least visible, as do the side lights when these are operating on the fog setting.

Also when environmental illumination (or the headlamps of the vehicle behind) is very bright at the rear of the vehicle, perception of the intensity of the brake lights is enormously reduced.

Finally, in some road configurations and at some distances observation of a vehicle whose brake lights are lit does not provide any indication whether the said vehicle is moving or stationary, and therefore what change in speed should be made; only a subjective appreciation of the speed with which the relative change in positions occurs provides an idea, in many cases a late idea, of whether the other vehicle is moving or stationary, and this frequently causes vehicles to approach too closely.

Patents P8903390, P0531328, P0100875, P9002441 and others which relate to braking indicators which use intermittent flashing, flashing stop lights, changes in the brightness or rhythm of the brake lights in proportion to deceleration, indicators which memorize the initial braking force applied, and various

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systems to detect sudden accelerations and decelerations, are known.

None of these patents takes a combined view of the problem of the detection and transmission of all
5 braking parameters, possible forms of braking, whether the vehicle is at the end moving or stationary, the way information on environmental conditions is transmitted and the ways of conveying this and the criteria applicable to it differ substantially in nature.

10

DESCRIPTION OF THE INVENTION

This patent offers a solution for conveying necessary information to other drivers in any type of braking and under any environmental or lighting
15 conditions, providing information on the loss of speed which the braking system or slowing of the engine produces, the speed with which this occurs (whether the braking is fierce, gentle or total) and the final condition of the vehicle (travelling or stationary), in
20 a rapid and easily understandable way.

The magnitude of a vehicle's speed loss depends on the speed at which it is travelling at the moment braking is applied (slowing 10 kph when travelling at 120 kph on a motorway is not as
25 significant as dropping this speed when travelling in town or in a queue at 50 kph), and the rate at which this slowing takes place (indicating whether the braking is fierce or progressive).

The various systems for obtaining a signal
30 from a change in a vehicle's speed and changes in engine rpm are not regarded as being relevant in this patent, given the ease and the large number of possibilities available for providing them in any existing vehicle, for example:

- 35 • The wheel speed signal can be obtained: from the ABS system, from an optical reader, or by installing any of the many systems which enable us to know the wheel speed (rotameters, May effect, anemometers, etc.).

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- Likewise the rpm signal from the engine can be obtained: from the alternator, rev counter, sparking coil, optical reader, intake anemometer, etc.

The system indicating braking comprises a total segment (of the width of the rear of the vehicle's coachwork or its rear window) which may have a fixed zone which initially lights up at each end (regardless of the drop in speed and the type of braking) as soon as force is applied to the brake pedal or the engine is slowed, which is independent of the braking parameters (it acts like a conventional brake light), and on either side a segment which lights up in proportion to the braking parameters, which is controlled by a microprocessor through a braking program.

In the centre point of the total segment a reflector or any type of indicator (or the environmental light sensor itself) occupies the centre of the display.

20 As the wheels lose speed (as a result of
action on the braking system or slowing of the engine),
as well as the ends of the total segment lighting up
instantaneously lights light up in proportion to the
loss of speed, their number and the rate at which they
25 light up varying with the loss of speed during braking.

The rate at which the lights light up away from (or towards) the central indicator is directly proportional to the actual rate at which speed is lost by the vehicle per unit time and the number which light up is proportional to the actual loss of speed as an absolute value.

The rate at which the lights light up and the number which light up provide rapid information about the rate at which speed is being lost and what final speed is reached (in comparison with the travelling speed), and therefore the loss of speed until the vehicle is completely stationary.

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- If the lights light up slowly towards the centre (or from the centre towards the edges), the rate at which speed is lost is slow in comparison with the speed at which the vehicle is travelling and progressive (gentle braking); if in addition to this the number of lights which light up is few, this indicates that the speed reduction is small (again in comparison with the speed at which the vehicle was travelling).
- If the lights light up rapidly towards the centre (or away from the centre towards the edges) this means that the loss of speed is rapid in comparison with the speed at which the vehicle is travelling (fierce braking) and if the number of lights which light up is large, this means that the reduction in speed is also rapid (again in comparison with the speed at which the vehicle was travelling).
- If all the lights light up this means that the vehicle is stopped or that braking has locked the wheels (total braking).

The warning lights remain lit while force is applied to the brake pedal and the system acts with a delay, as far as extinguishing of the lights is concerned, so that if the brake pedal is operated repeatedly the system responds to the initial conditions (and not to each of the instantaneous speeds corresponding to each braking pulse).

The braking indicator system is controlled by a microprocessor which reads the signal provided by a analog to digital converter when indicating the interruptions generated by the brake pedal or the engine rpm derivative sensor and is supplemented with an environmental light sensor which (through the LED driver) establishes the brightness of the light emitted in a directly proportional way when indicating braking, and a switch, in the event of fog, which disconnects the environmental light sensor and ensures maximum brightness from the braking indicator lights.

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EXPLANATION OF FIGURE 1

- S-1 = Wheel speed signal
S-2 = Brake pedal signal
S-3 = Engine rpm signal
5 A.S. = Signal conditioners
DV = Derivative sensor
IRQ-P1 = Priority 1 interruption
IRQ-P2 = Priority 2 interruption
C.A.D. = Analog-digital converter
10 MCP = Microprocessor
R = Clock
D.L. = LED drivers
E = Non-proportional illumination zone
L = Reflector or environmental light sensor
15 S = Zone in which lighting is proportional to the
braking parameters

EXPLANATORY EXAMPLE

- If the system is stationary, acting on the
20 brake pedal produces the highest priority interruption
(IRQ P1) for the microprocessor (MCP) as a result of
which the analog signal (S.1) which is proportional to
the wheel speed which continually passes through the
signal conditioning circuit (A.S.) and is converted
25 into digital by the analog-digital converter (C.A.D.)
is read by the microprocessor (MCP) and processed in
accordance with the "braking indication" program,
lighting up the LED in the fixed lighting zones (E) and
through the LED driver the LEDs (S) corresponding to
30 the loss of speed which is produced, in accordance with
the set determined by the initial speed.

- If the system is stationary a signal is
produced from the derivative (DV) to produce an
instantaneous engine revolutions peak when action is
35 taken on the gearbox, this giving rise to a lesser
priority interruption (IRQ-P2) in the microprocessor
(MCP) as a result of which this reads the digital wheel
speed signal coming from the analog-digital converter

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(C.A.D.) and processes it in accordance with the "braking indication" program and cuts off the indication when the wheel speed increases or remains constant.

5 The "braking indication" program acts in the same way in both cases, so that for example if the variably lit part (S) of each segment of the vehicle's lights comprises 20 lights and the vehicle is travelling at 120 kph, when action is taken on the
10 braking system or slowing is effected through the gearbox the program causes the two fixed end lights (B) in each segment to light up at the same time as establishing the set which lights up corresponding to this speed (120 kph), the sensitivity of progression in
15 this set being obtained by dividing the instantaneous speed read from the number of LEDs in each segment (20) and processing the continuous signal received from the analog-digital converter (C.A.D.) in relation to this sensitivity, this determining the number of lights
20 which light up and the speed at which they do so in such a way that the lights in the variable zone (S) light up as the speed during braking passes through 114, 108, 102, ..., 12, 6 and 0 kph (if all the 20 lights in each segment light up, that is the total
25 segment is illuminated, this means that the vehicle is wholly stationary).

 The sensitivity which can be imparted to the system depends only on the number of lights forming each segment (the more lights per segment, the more
30 sensitive to changes in speed).

 Whenever action is taken on the braking system the microprocessor (MCP) selects the series which light up corresponding to the initial speed at that moment, but the system switches off the signal
35 provided when action on the brake pedal ceases, with a specific delay (i.e. 3 seconds). In this way, if the foot is lifted off the brake pedal for a few moments and then pressed down again, all the lights which were

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A switch can be used to switch off control by the environmental light sensor and set all lights (E and S) to maximum brightness in the event of fog.

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CLAIMS

1. Braking indicator of the lighting type located in the rear part of a vehicle, comprising an electronic controller processing actual speed and engine revolutions signals and a segment of lights which through proportionality between the vehicle's actual loss of speed and the number of lights and the rate at which they progressively light up conveys rapid information to other drivers on the actual loss of speed as a result of action on the braking system or sudden slowing of the engine, the type of braking which is being applied, fierce or progressive, and whether at the end the vehicle is moving or stationary.
2. Vehicle braking indicator according to claim 1, characterized in that the braking parameters indicator comprises a segment divided into two equal parts with a fixed number of lights which converge or diverge to or from the centre thereof when in operation.
3. Vehicle braking indicator according to claims 1 and 2, characterized in that the number of lights in the two segments which light up and the rate at which they light up depends on the initial rate of braking, which determines the braking set which lights up, and the number and the rate at which the vehicle's speed is lost during braking as shown by this set.
4. Vehicle braking indicator according to claims 1 to 3, characterized in that a microprocessor with a braking indication program processes the vehicle speed signal when the braking system is activated in such a way that the instantaneous speed read is allocated to a number of lights in each segment and accordingly the lights in the two segments light up progressively as the speed of the vehicle changes while braking.
5. Vehicle braking indicator according to claims 1 to 4, characterized in that the microprocessor is also triggered by the signal from a derivative circuit from the motor revolutions signal.

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6. Vehicle braking indicator according to claims 1 to 5, characterized in that the brightness of the lights which light up in each segment is controlled by an environmental light sensor in a directly proportional manner.
7. Vehicle braking indicator according to claim 6, characterized in that a switch can be used to disconnect the environmental light sensor and apply maximum brightness to the lights which light up.
8. Vehicle braking indicator according to claims 1 to 7, characterized in that the signal reached during the entire braking time is switched off with a specific delay when force ceases to be applied to the brake pedal.
9. Vehicle braking indicator according to claims 1 to 8, characterized in that the segment which lights up in a variable way may incorporate a zone which always lights up independently of the braking parameters.

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ABSTRACT

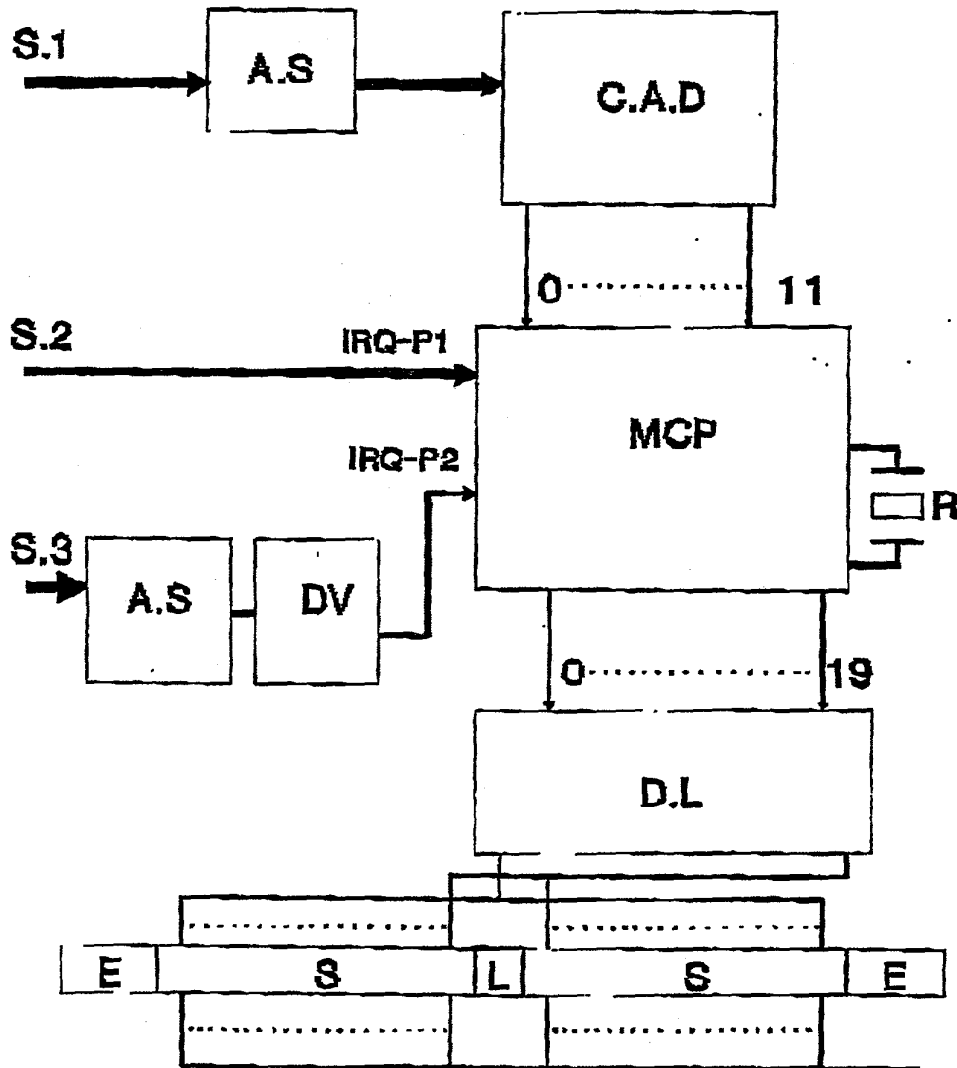
Integral vehicle braking indicator. Comprises an electronic system for processing actual speed signals and engine revolutions signals and a segment of lights which through proportionality (controlled by the electronic system) between the vehicle's actual speed loss and the number of lights located in the rear part of the vehicle which light up (comprising the entire segment) and the rate at which they do conveys to other drivers rapid information on actual loss of speed as a result of action on the braking system or sudden slowing of the engine, the type of braking being applied (fierce or progressive) and whether at the end the vehicle is moving or stationary.

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FIG. 1



COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

- ☐ original.
☐ design.
☐ supplemental.

NOTE: *If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.*

- ☒ national stage of PCT.

NOTE: *If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.*

NOTE: *See 37 C.F.R. § 1.63(d) (continued prosecution application) for use of a prior nonprovisional application declaration in the continuation or divisional application being filed on behalf of the same or fewer of the inventors named in the prior application.*

- ☐ divisional.
☐ continuation.

NOTE: *Where an application discloses and claims subject matter not disclosed in the prior application, or a continuation or divisional application names an inventor not named in the prior application, a continuation-in-part application must be filed under 37 C.F.R. § 1.53(b) (application filing requirements-nonprovisional application).*

- ☐ continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: *If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.*

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

SPECIFICATION IDENTIFICATION

The specification of which:

(complete (a), (b), or (c))

(a) ☐ is attached hereto.

NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 C.F.R. § 1.63:

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☐ was filed on _____, as ☐ Application No. 0 / _____ or
☐ _____ and was amended on _____ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 C.F.R. § 1.67.

NOTE: "The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 C.F.R. § 1.63:

"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g., 08/123,456);

"(2) name of inventor(s), serial number and filing date;

"(3) name of inventor(s) and attorney docket number which was on the specification as filed;

"(4) name of inventor(s), title which was on the specification as filed and filing date;

"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

Notice of July 13, 1995 (1177 O.G. 60), M.P.E.P. § 601(a), 6th ed., rev.3.

- (c) ☐ was described and claimed in PCT International Application No. ES00/00195 filed on June 1, 2000
_____ and as amended under PCT Article 19 on _____ (if any).

SUPPLEMENTAL DECLARATION (37 C.F.R. § 1.67(b))

(complete the following where a supplemental declaration is being submitted)

☐ I hereby declare that the subject matter of the

☐ attached amendment

☐ amendment filed on _____.

was part of my/our invention and was invented before the filing date of the original application, above identified, for such invention.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

☐ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. § 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)-(d))

NOTE: "The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63. The claim for priority and the certified copy of the foreign application specified in 35 U.S.C. § 119(b) must be filed in the case of an interference (§ 1.630), when necessary to overcome the date of a reference relied upon by the examiner, when specifically required by the examiner, and in all other situations, before the patent is granted. If the claim for priority or the certified copy of the foreign application is filed after the date the issue fee is paid, it must be accompanied by a petition requesting entry and by the fee set forth in § 1.17(i). If the certified copy is not in the English language, a translation need not be filed except in the case of interference; or when necessary to overcome the date of a reference relied upon by the examiner; or when specifically required by the examiner, in which event an English language translation must be filed together with a statement that the translation of the certified copy is accurate." 37 C.F.R. § 1.55(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☐ no such applications have been filed.
(e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

**PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)**

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING DAY, MONTH, YEAR	PRIORITY CLAIMED UNDER 35 USC 119
PCT	ES00/00195	June 1, 2000	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Spain	9901294	June 10, 1999	<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER

FILING DATE

_____/_____
_____/_____
_____/_____

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)
UNDER 35 U.S.C. § 120

[] The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN-PART (C-I-P) APPLICATION.

ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

JOSEPH H. HANDELMAN, 26179

JOHN RICHARDS, 31053

RICHARD J. STREIT, 25765

PETER D. GALLOWAY, 27885

IAN C. BAILLIE, 24090

THOMAS F. PETERSON, 24790

RICHARD P. BERG, 28145

JULIAN H. COHEN, 20302

WILLIAM R. EVANS, 25858

JANET I. CORD, 33778

CLIFFORD J. MASS, 30086

(Check the following item, if applicable)

- ☐ I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.
- ☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named practitioner(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO

DIRECT TELEPHONE CALLS TO:
(Name and telephone number)

Ladas & Parry
26 West 61st Street
New York, N.Y. 10023

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other document.

NOTE: Each inventor must be identified by full name, including the family name, and at least one given name without abbreviation together with any other given name or initial, and by his/her residence, post office address and country of citizenship. 37 C.F.R. § 1.63(a)(3).

NOTE: Inventors may execute separate declarations/oaths provided each declaration/oath sets forth all the inventors. Section 1.63(a)(3) requires that a declaration/oath, inter alia, identify each inventor and prohibits the execution of separate declarations/oaths which each sets forth only the name of the executing inventor. 62 Fed. Reg. 53,131, 53,142, October 10, 1997.

Full name of sole or first inventor

1-0 Fernando J. de la Fuente Escandón
(Given Name) (Middle Initial or Name) Family (Or Last Name)

Inventor's signature FERNANDO JAVIER DE LA FUENTE ESCANDÓN

Date 20-03-02 Country of Citizenship Spain

Residence Spain

Post Office Address Nicaragua 4, 28016 Madrid, Spain ESX

Full name of second joint inventor, if any

(Given Name) (Middle Initial or Name) Family (Or Last Name)

Inventor's signature

Date Country of Citizenship

Residence

Post Office Address

Full name of third joint inventor, if any

(Given Name) (Middle Initial or Name) Family (Or Last Name)

Inventor's signature

Date Country of Citizenship

Residence

Post Office Address

(check proper box(es) for any of the following added page(s)
that form a part of this declaration)

☐ **Signature** for fourth and subsequent joint inventors. *Number of pages added* _____

* * *

☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* _____

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 C.F.R. § 1.47. *Number of pages added* _____

* * *

☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 C.F.R. § 1.47)

* * *

☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.

☐ Number of pages added _____

* * *

☐ Authorization of practitioner(s) to accept and follow instructions from representative.

(If no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)

☒ This declaration ends with this page.